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[Metallurgy of lead and zinc] Metallurgiia svintsa i tsinka. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1961. 406 p. (MIRA 14:1)
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Academic degree and/or title: Doctor of Sciences

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(PANCREAS--CANCER)

KRAVCHENKO, P.V., prof.; RUDOVA, S.I.

Surgery for grave forms of thyrotoxic goiter and the use of neurovegetative preparations. Kaz. med. zhur. no. 4:30-33 Jl-Ag '60. (MIRA 13:8)

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KRAVCHENKO, P.V.; AGEYEV, A.F.

Surgical treatment of the chylothorax. Grud. khir. 3 no.1: 109-112 Ja-F '61. (MIRA 16:5)

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(CHYLOTHORAX)

BOGOSLAVSKIY, R.V., prof.; BREGADZE, I.L., prof.; VELIKORETSKIY, A.N., prof.; VINOGRADOV, V.V., doktor med. nauk; GROZDOV, D.M., prof.; GULYAYEV, A.V., prof.; DZHAVADYAN, A.M., doktor med. nauk; KRAVCHENKO, P.V., prof.; LOBACHEV, S.V., prof.; NIKOLAYEV, O.V., prof.; PYTEL', A.Ya., prof.; SMIRNOV, A.V., prof.; FAYERMAN, I.L., prof.; FUTORYAN, Ye.S.; SHELAGU, A.A., zas. deyatel' nauki, prof.; BOLYAN, R.O., prof.[deceased]; PETROVSKIY, B.V., prof., otv. red.; SENCHILO, K.K., tekhn. red.

[Multivolume manual on surgery]Mnogotomnoe rukovodstvo po khirurgii. Otv.red.B.V.Petrovskii. Moskva, Medgiz. Vol.8.[Surgery of the liver, biliary tract, pancreas, and spleen]Khirurgiia pecheni, zhelchnykh putei, podzheludochnoi zhelezy i selezenki. Red.toma A.V.Guliaev. 1962. 659 p. (MIRA 15:6)

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KRAVCHENKO, P. V.; VOLKOV, V. Ye. (Kazan')

Role of pancreatic enzymes in the etiology of acute cholecystitis. Klin. med. no.2:21-23 '62. (MIRA 15:4)

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(GALL BLADDER—DISEASES)
(PANCREAS—SECRETIONS)

KRAVCHENKO, P.V., prof.; VOLKOV, V.Ye.

Diagnosis and treatment of acute cholecystopancreatitis. Khirurgiia no.3:3-7 '62. (MIRA 15:3)

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(GALL BLADDER--DISEASES) (PANCREAS--DISEASES)

KRAVCHENKO, P.V., prof.; VOLKOV, V.Ye.

Treatment of closed wounds of the liver and spleen. Kaz.med.zhur. no.3:27-28 My-Je '62. (MIRA 15:9)

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(LIVER--WOUNDS AND INJURIES) (SPLEEN--WOUNDS AND INJURIES)

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(STOMACH—SURGERY) (BLOOD—CIRCULATION, DISORDERS OF)

KRAVCHENKO, P.V., prof.; VOLKOV, V.Ye., aspirant.

Surgical technique in acute pancreatitis and cholecystopancreatitis. Kaz.med.zhur. no.3:28-30 My-Je '63.
(MIRA 16:9)

1. Kafedra khirurgii i neotlozhnoy khirurgii (zav. - prof. P.V.Kravchenko) Kazanskogo gosudarstvennogo instituta dlya usovershenstvovaniya vrachey imeni Lenina.
(PANCREAS—DISEASES) (GALLBLADDER—DISEASES)

KRAVCHENKO, P.V., prof.; AGEYEV, A.F., assistent

Use of anticoagulants in acute thromboembolism. Kaz. med. zhur. 4:51-52 Jl-Ag '63 (MIRA 17:2)

1. Kafedra khirurgii No.2 (zav. - prof. P.V. Kravchenko) Kazanskogo gosudarstvennogo instituta dlya usovershenstvovaniya vrachey imeni Lenina.

TSYGANENKO, G.I., inzh.; KRAVCHENKO, P.V., inzh.

Nonstick coatings for steel castings. Mashinostroenie no.6:52-53 N-D '65. (MIRA 18:12)

AUTHOR: Kravchenko, P.Ya., Candidate of Technical Sciences 99-58-7-10/10

TITLE: Chronicle. The 19th Jubilee Scientific Technical Conference of the Novocherkassk Institute of Engineering and Soil Improvement (Khronika. XIX Yubileynaya nauchno-tekhnicheskaya konferentsiya Novocherkasskogo inzhe.. -meliorativnogo instituta)

PERIODICAL: Gidrotekhnika i melioratsiya, 1958, Nr 7, pp ' (USSR)

ABSTRACT: In February 1958, the 19th jubilee scientific tec. l conference of the Novocherkassk Institute of Engineeri and Soil Improvement was convened. The conference discussed the problems in two plenary sittings and in eight sections. The first plenary sitting was opened by the Director of the Institute, N.K. Shul'gi, with a report on "The 50th Anniversary of the Novocherkassk Institute of Engineering and Soil Improvement and its activity during 40 years of the existence of the Soviet State". The meeting heard the following reports: Professor B.A. Shumakov, Member-Correspondent of VASKhNIL and Doctor of Technical Sciences, on "The History of the Development of the Science of Soil Improvement in the North Caucasus and the Don River Region"; Dotsent A.A. Shchegolev (NIVI), Candidate of Historical Sciences, on "National Economy of the North Caucasus

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in the 6th Five-Year Plan", I.M. Malinovskiy, deputy chief engineer of Yuzhgiprovodkhoz, on "The Problem of a Complex Utilization of the River Yantszy for the National Economy of the Chinese People's Republic"; I.A. Chernikevich, deputy chief engineer of the Giprovodkhoz MSkh SSSR, on "Irrigational Work in Ceylon". The soil improvement section, the chairman of which was Professor B.A. Shumakov, Member-Correspondent of VASKhNIL, heard the following reports: Dotsent K.P. Anisimov (Saratov SKhI), Scientific co-worker B.M. Kaganikov, I.S. Ryazanov (Stalingrad OMS) and V.N. Marchenko (Groznyy OMS) on questions concerning irrigation systems and irrigation methods; A.Ye. Akhundov (AzNIIGiM), Candidate of Technical Sciences, on "Ways of Basic Soil Improvement in the Shirvanskaya Steppe"; Ye.I. Zdobnov on "Regularities in the Mineralization of Drainage Waters"; V.Kh. Klots, Engineer, (Rostov Oblvodkhoz) and A.V. Dolgikh, Scientific co-worker of the AzNIIGiM, on "Checking Filtration from Canals by Means of Sealing Their Beds"; V.F. Sverikova (Rosgiprovodkhoz), Engineer, on Irrigation systems in the Meshcherskaya plain; A.A. Troitskiy, Dotsent (Saratov-

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skiy institut mekhanizatsii sel'skogo khozyaystva - Saratov Institute of Agricultural Mechanization), on "General Principles of a Complex Utilization of the Local Flow of Water in the Don-Volga-Ural Regions"; I.F. Sukharev, Candidate of Technical Sciences, Director of the Irrigation Department of the Institute imeni Dokuchayev, on "The Local Flow of Water in the South-East Voronezh Oblast', Its Regulation and Utilization for Irrigation"; P.A. Shepsel' and N.A. Volkonskiy, Engineers (Stalingrad oblast'), on "The Development of Economical Methods for Utilizing the Volga-Akhtuba River Valley and the Volga Delta"; K.S. Glubshev, Engineer, on "The Application of Automatic Glubshev Water Meters in the Irrigation Systems of the Rostov Oblast'". The irrigation section, the chairman of which was Dotsent K.S. Garin, Candidate of Agricultural Sciences, heard the following reports: Dotsent K.S. Garin, on "Variations of Osmotic Indicators for the Water Supply of Corn Plants in Various Phases of Development"; D.V. Yermakin, Candidate of Agricultural Sciences (YuzhNIIGiM), on "The Question of Zoning Winter Wheat Areas in the North Caucasus Requiring Irrigation";

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P.I. Dukarevich, Candidate of Agricultural Sciences, head of the laboratory for irrigation of the Don-Zone Scientific Research Institute of Agriculture, on "Fertilization and Irrigation of Corn in the Cis-Caucasian Black Soil Regions of the Rostov Oblast'"; A.F.Kalashnikov, Candidate of Agricultural Sciences, President of the kolkhoz "Leninskoye znamya" (Azov region, Rostov oblast'), on "Peculiarities of the Water System of the Cis-Caucasian Black Soil Regions"; Ya.V. Smol'skiy, Candidate of Agricultural Sciences, on "Mechanization of the Cultivation of Intertilled Crops Under Irrigation in the Foothills of the North Caucasus"; I.P. Kruzhilin, Aspirant NIMI, on "Irrigation Systems for Sunflowers in the Rostov Oblast'"; A.I. Bezmenov, Aspirant of the Saratov SKhI, on "Mechanization of Seeding and Planting Under Various Irrigation Methods"; F.V. Kiver, Teacher of the Kherson SKhI, on "Soaking Irrigation in the South of the USSR"; F.K. Rodionovskiy, Candidate of Agricultural Sciences, on "The Accumulation and Change of Organic Substances in the Soil Under Various Cultivations of Crop Rotations". The joint sitting of the soil improvement

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and irrigation sections (chairman Professor P.A. Shumakov) heard the following reports: N.I. Nefedov, Engineer and Deputy Minister of water economy of the Kirghiz SSR, A.A. Smolyakov (Stalingrad branch of Yuzhgiprovodkhoz) and V.N. Martensen, Engineer (Ministry of Water Economy of the Azerbaydzhan SSR), on the tasks facing the water economy in the Kirghiz SSR, Stalingrad oblast' and Azerbaydzhan SSR; A.A. Ovchinnikov, Director of Yuzhgiprovodkhoz, on "Several Questions on the Irrigation System and Agricultural Engineering of Winter Wheat and the Development of Rice Seeding in the Rostov Oblast'"; V.D. Koval', Candidate of Agricultural Sciences (NIMI), and P.A. Goncharenko, chief economist of Yuzhgiprovodkhoz, on principles for economical efficiency of irrigation systems; L.V. Skripchinskaya (NIMI), Candidate of Technical Sciences, on actual questions of utilizing river valleys and deltas; V.B. Zaytsev, Candidate of Agricultural Sciences, head of the laboratory of the Kuban' Rice Station on "The Water Supply of Rice Irrigation Systems". The section of agricultural water supply and irrigation, whose chairman was Professor V.S. Ovodov, heard the following reports: Professor V.S. Ovodov (NIMI), on "The Develop-

Chronicle. The 19th Jubilee Scientific Technical Conference of the Novocherkassk Institute of Engineering and Soil Improvement

ment of the Theory of Agricultural Water Supply by the Novocherkassk Institute of Engineering and Soil Improvement"; N.A. Karambirov, Candidate of Technical Sciences (Moscow Institute of Irrigation Engineers imeni Vil'yams) and I.F. Volod'ko (All-Union State Institute of Geology), on general irrigation problems; B.M. Kozenko, head of the Krasnodar Giprosel'stroy, on "The Classification of the Waters of the Priazovo-Kuban' Artesian Basin"; M.Ya. Yeliseyev, Candidate of Technical Sciences (NIMI), on the development of unreinforced cement-lined gravel filters for well drilling; D.D. Savvin, Candidate of Technical Sciences (NIMI), on "The Experience in Operational Utilization of Inertia Pumps of the A.V. Kanashinskiy and D.D. Savvin System, for Providing Dry Regions with Water"; **V.M. Dolinskaya**, Candidate of Technical Sciences, representative of Ukrainian NIIGiM, on "Water Consuming Norms for Planning Water Supply Lines on Cattle Farms"; A.A. Romanov, Chief engineer of the Stalingrad office of Meliovodstroy, on "Experience in Using NIMI Construction Filters Made of Porous Concrete with Reinforced Shaft Wells"; M.T. Rastyapin,

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Engineer NIMI, on "Automatic Chlorinators for the Disinfection of Low Water Discharges"; S.N. Linevich, Engineer, Novocherkassk politekhnicheskiy institut (Novocherkassk Polytechnical Institute), on "Experience in Using Radiometric Isotope Methods for Research in Water Processing"; M.G. Kukhlak, Engineer, Rostteploelektroproyekt, on " A Graphic Method for Selecting Economical Pipe Diameters for Steel Water Pipes"; V.G. Il'yin, Candidate of Technical Sciences (NIMI), on "The Influence of the Location of Water Pressure Reservoirs on the Operational System of Pumps, Water Pipes, Water Systems and Water Towers". The hydrotechnical section whose chairman was I.K. Fedichkin, Candidate of Technical Sciences, heard the following reports: L.A. Chernikevich, Deputy chief engineer of the Vsesoyuznyy proyektnyy institut "Giprovodkhoz" (All-Union Planning Institute "Giprovodkhoz"), on "Standard Planning and Questions in Scientific Research"; Dotsent V.M. Apollosov (MIIVKh im. Vil'yams) on "Prefabricated and Reinforced Concrete in Soil Improvement Structures"; A.F. Dikov, Engineer (Azgiprovodkhoz), on "Prefabricated Hydrotechnical Structures in Azerbaydzhan"; V.D. Zherzhnev, Engineer (Pyatigorsk branch

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of Yuzhgiprovodkhoz), on "A Prefabricated Reinforced Concrete Water Spillway for Water Reservoirs of Kolkhozes"; A.D. Soldatov, Engineer, on "The Designing of Prefabricated Reinforced Concrete Bulkheads by Giprorechtrans"; V.M. Polumbo on observations on the filtration through the Tsimlyansk dam; I.K. Fedichkin, Candidate of Technical Sciences and S.K. Kuznetsov, Engineer (NIMI), on "Laboratory Research on the Hydroelectric Power Plant on the River Aley for the Purpose of Supplying Water to the Altay Tractor Plant and the Town of Rubtsovsk"; P.F. Kononenko, Candidate of Technical Sciences, V.P. Ivanov and P.M. Stepanov (NIMI), on "Laboratory Research of Water Spillways of the Hydroelectric Power Plant of the Kuban'-Kalaus Irrigation System"; V.V. Grekov, Engineer, on "Complex Methods to Control the Sliding and Rupture of Shores"; E.V. Pashchenko on "Experience in Using Stationary Continuous Shore-Supporting Construction". The hydraulic, hydroenergetic and hydrological section whose chairman was Dotsent M.M. Skiba, Candidate of Technical Sciences, heard the following reports: A.D. Soldatov, Engineer, on "Some Observed Results of the Transformation of the Tsimlyansk Water Reservoir Shores"; L.M. Konarzhevskiy,

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Engineer (Yuzhgiprovodkhoz), on "Surface Water Flow in the Sal'sk Steppe"; Dotsent A.F. Samokhin (Rostov State University), on "Geographical Borders of the Distribution of "Pyatro" (unknown) in the USSR"; S.A. L'vov, Dotsent of the Dnepropetrovsk sel'skokhozyaystvennyy institut (Dnepropetrovsk Agricultural Institute), on "A New General Method of Monomial Expressions for the Calculation of Turbulent Flow Streams"; K.I. Lysov, Candidate of Technical Sciences (NIMI), on "The Cavitation of Pumps in Soil Improvement Pump Stations of the Rostov Oblast'"; I.M. Savenko, Candidate of Technical Sciences (NIMI), on "Results of Laboratory Research on the Winter System of Water Intakes Without Dams"; V.P. Levon, Stalingrad GES, on "Advanced Operational Methods of Fitting in the Construction of the Stalingrad GES"; S.I. Ignatenko, Candidate of Technical Sciences and A.K. Tilin (NIMI), on "Hydraulic Calculation of the Water Intake at the Intersection Place of Two Flows".

The joint meeting of the hydrotechnical, hydraulic, hydroenergetic and hydrological sections heard the following reports: M.M. Skiba, Candidate of Technical Sciences (NIMI), on "The

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Internal Mechanism of the Water Jump"; A.A. Koshintsev, Engineer and head of the hydrotechnical section of the Belorechenskaya GES, on "Methods to Control the Filling in of the Upper Water Head of the GES"; A.D. Saratovskiy and A.I. Borean, Engineer, on "The Control of Ice Disturbances in Hydrotechnical Structures and Canals"; V.G. Sukharev on hydraulic problems in the activity zone of the Pyatigorsk branch of Yuzhgiprovodkhoz. The section of forestry whose chairman was S.F. Bessarabov, Candidate of Agricultural Sciences, heard the following reports: S.F. Bessarabov on "The Results of the Scientific and Educational Work of the Forestry Department of NIMI During the Time of Its Existence"; Dotsent K.A. Lashkevich and V.P. Pisarev, Forestry Engineers in the Don and North Caucasian regions; N.R. Kulikh, Candidate of Agricultural Sciences, N.A. Smirnova, Engineer, and Yu.T. Zolotarev on soil improvement and afforestation of sandy regions. The second plenary sitting agreed to convene the 20th scientific technical conference of the Institute in February 1959.

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1. Soil engineering-Development-USSR 2. Soil engineering-Development-China 3. Agriculture 4. Irrigation systems 5. Water-Chlorination

PHASE I BOOK EXPLOITATION SOV/3956

Kravchenko, Petr Yefimovich, Candidate of Technical Sciences

Ustalostnaya prochnost' (Fatigue Strength) Moscow, Gos. Izd-vo "Vysshaya shkola," 1960. 103 p. Errata slip inserted. 5,000 copies printed.

Ed.: S. V. Rabinovich; Ed. of Publishing House: K. I. Anoshina; Tech. Ed.: M. D. Shlyk.

PURPOSE: This book is approved by the Ministry of Higher and Secondary Special Education of the USSR as a textbook for schools of higher technical education.

COVERAGE: The author presents a concise discussion of all the fundamental problems of fatigue strength. He describes ways for increasing fatigue strength and presents results of investigations which have been conducted in this field during the last decade. The author thanks Professor S. S. Milovidov and Engineer G. M. Itskovich, and mentions the following Soviet scientists who have done theoretical and experimental work in the field of fatigue strength: N. N. Davidenkov, S. V. Serensen, N. N. Afanas'yev, N. P. Shchapov, I. A. Oding, G. V. Uzhik, and R. S. Kinasoshvili. There are 18 references, all Soviet.

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Black dyeing of lavsan. Leh.prom. no.3:74-75 Je - Ag '62.(MIRA 16:2)
(Dyes and dyeing) (Synthetic fabrics)

AUTHORS: Kravchenko, S. and Ryubov, P. (Engineers). 66-2-10/22

TITLE: On defreezing butter by means of a high frequency electric field. (O razmorazhivanii slivochnogo masla v elektricheskom pole vysokoy chastoty).

PERIODICAL: "Kholodil'naya Tekhnika" (Refrigeration Engineering) 1957, No.2, pp. 48 - 49 (USSR).

ABSTRACT: Preliminary defreezing during packing of butter to temperatures of 0 to -1 C by current methods takes 3 to 4 days. Experiments were carried out at the Leningrad Polytechnical Institute imeni M.I. Kalinin on defreezing briquettes of unsalted high grade butter, weighing 200 g each and blocks weighing 3 and 25.4 kg respectively. Defreezing from -10 to +1 C took 2 to 5 minutes at a frequency of 10 to 20 Mc/sec, the butter being placed between two electrodes of a tube oscillator. Uniformity of defreezing of the butter block throughout its entire body depends on a number of factors. In some cases the temperature rise is more intensive at the surface of the block and in other cases, due to non-uniform consistency and presence of moisture drops, an outflow of jets of butter from inside the block was observed. The authors recommend further experiments in this field.

Card 1/1

AVAILABLE:

SERGIYEVSKIY, V., master radiolyubitel'skogo sporta; KRAVCHENKO, S., master radiolyubitel'skogo sporta.

Let's prepare a map showing the electric conductivity of the soil of the U.S.S.R. Radio no.7:17-18 Jl '58. (MIRA 11:9)
(Soil--Electric properties)

KRAVCHENKO, S., inzh. (Leningrad)

Regulated power supply. Radio no.9:55 S '65.
(MIRA 19:1)

ACC NR: AP7000326 (A) SOURCE CODE: UR/0413/66/000/022/0066/0066

INVENTOR: Koltik, Ye. D.; Kravchenko, S. A.

ORG: none

TITLE: Phase-shift calibrator for extremely low frequencies. Class 21, No. 188584. [announced by All-Union Scientific Research Institute of Metrology im. D. I. Mendeleyev. (Vsesoyuznyy nauchno-issledovatel'skiy institut metrologii)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 22, 1966, 66

TOPIC TAGS: phase measurement, instrument calibration equipment

ABSTRACT: An Author Certificate has been issued for a phase-shift calibrator for extremely low frequencies. The device includes an extremely low-frequency oscillator with two phase shifters and an indicator of phase-shift increment. To increase

Card 1/2 UDC: 621.317.727

ACC NR: AP7000326

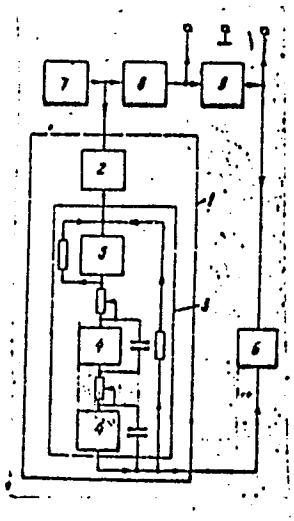


Fig. 1. Calibrator

1 - Extremely low-frequency multiplier; 2 - amplitude limiter; 3 - multiplying circuit; 4 - quadrature amplifier; 5 - phase-inverting stage; 6 - phase-shift increment indicator; 7 - extremely low frequency oscillator; 8 - auxiliary phase shifter; 9 - base phase shifter.

accuracy at a given phase shift, the circuit shown in Fig. 1 is proposed. Orig. art. has: 1 figure.

SUB CODE: 09/ SUBM DATE: 16Jul65/ ATD PRESS: 5108

Card 2/2

ACC NR: AR7000830 SOURCE CODE: UR/0272/66/000/010/0123/0123

AUTHOR: Koltik, Ye. D.; Kravchenko, S. A.

TITLE: Precision phase-shifting devices for the extreme l-f range

SOURCE: Ref. zh. Metrologiya i izmeritel'naya tekhnika, Abs. 10.32.886

REF SOURCE: Tr. in-tov Gos. kom-ta standartov, mer i izmerit. priborov SSSR, vyp. 82(142), 1965, 67-82

TOPIC TAGS: phase shifter, extreme low frequency, phase shift

ABSTRACT: A method of reproducing the phase shifts between two extreme l-f voltages (0.001—100 cps) with an error of not over a few tenths of one degree is investigated. The theory of the method is explained. Two types of new phase-shifting devices based on the use of electronic and optical-mechanical devices are described. The schematic diagrams of the basic units of the phase-shifting devices and the results of their investigation are given. There are eleven illustrations and a bibliography of 3 titles. P. Agaletskiy. [Translation of abstract] [DW]

SUB CODE: 09/

Card 1/1 UDC: 621.317.77.084

ACC NR: AP7006578 (A) SOURCE CODE: UR/0230/66/000/012/0005/0006

AUTHOR: Komarov, A. A. (Candidate of technical sciences); Shchepelev, A. M. (Chief engineer of Artyshta-Podobas railroad line project), Kravchenko, S. A. (Engineer)

ORG: None

TITLE: Rational roadbed profiles in territories where snowdrifts are prevalent

SOURCE: Transportnoye stroitel'stvo, no. 12, 1966, 5-6

TOPIC TAGS: railway engineering, snow, railway construction

ABSTRACT: The authors consider the problems of keeping trains on schedule in Siberia and the far north during the snowy season when drifts may reach heights of greater than one meter. The design of the roadbed profile is an important factor in keeping the tracks clear of snow. Snowdrifts may be prevented by digging shallow trenches with sloping banks having a grade of 1:10. Theoretical studies and experiments in wind tunnels have shown that trenches with reserve canals on the side of the prevailing wind are less susceptible to drifting snow. These canals have a comparatively steep slope (1:1.5) which breaks up the air stream so that snow builds up in the canal against the bank. The depth of the snow in the canal builds up extremely slowly since the main part of the snow is carried across the canal and the roadbed and is deposited beyond the trench on the far side. Thus these trenches are important in that they

Card 1/2 UDC: 625.12.001.12

ACC NR: AP7006578

create conditions which prevent accumulation of the main mass of the snow on the roadbed. Reserve canals of this type were dug on the windward side of the roadbed for the Artyshta-Podobas railway line in 1965. These canals are 18-20 m wide with a difference of 1.5 m between the brow of the roadbed and the bottom of the reserve canal. Experience in the construction of this line shows that these measures are effective and cost less to build than conventional snow shields. Orig. art. has: 2 figures.

SUB CODE: 15, 13/ SUBM DATE: None

Card 2/2

L 02123-67 EWT(1)
ACC NR: AP6032008 SOURCE CODE: UR/0115/66/000/009/0061/0064

AUTHOR: Kravchenko, S. A.

ORG: none

TITLE: Precision two-phase infralow frequency generator

SOURCE: Izmeritel'naya tekhnika, no. 9, 1966, 61-64

TOPIC TAGS: extreme low frequency, signal generator

ABSTRACT: The device described provides two test signals in the extremely low and infrasonic frequency range. The variable phase shift of output signals from 0 to 360° and the 0.1° maximum phase dial error permit a wide variety of applications. To produce two output signals with known time parameters, both signals were generated by a common crystal-controlled oscillator. This arrangement requires double frequency conversion in two channels. The first conversion uses frequency dividers to provide signals with an accurate phase relationship. The second conversion is realized by the frequency beat of signals from the frequency dividers and signals from the crystal-controlled tuned oscillator. The output signals of the dividers are thereby transformed

Card 1/2 UDC: 621.373.42.029.4

L 02123-67

ACC NR: AP6032008

into a smooth adjustable output frequency of 0.001—999.999 kc, and the time relationship is preserved. The frequency stability of the output signals is determined by the oscillator stability. Orig. art. has: 2 figures and 4 formulas. [GS]

SUB CODE: 09/ SUBM DATE: none/ ORIG REF: 003/ OTH REF: 001

Card 2/2

L 24541-66 EWT(d)/EWT(l)/EEC(k)-2/EWA(h)

ACC NR: AP6006330 SOURCE CODE: UR/0413/66/000/002/0055/0055

AUTHOR: Kravchenko, S. A.

ORG: none

TITLE: A two-channel infralow frequency phase meter. Class 21, No. 177975 [announced by All-Union Scientific Research Institute of Metrology im. D. I. Mendeleyev (Vsesoyuznyy nauchno-issledovatel'skiy institut metrologii)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 2, 1966, 55

TOPIC TAGS: phase meter, electric measuring instrument, very low frequency, electronic circuit

ABSTRACT: This Author Certificate presents a two-channel infralow frequency phase meter. The meter contains a recording device, a preamplifier in each channel, and an inverter in one of the channels. It is designed to reduce the meter's response time and to provide a direct measurement of the phase during the period of oscillation. Each channel of the phase meter is supplied with a quadrature amplifier. The recording device is in the form of two identical independent, closed magnetic systems, positioned coaxially. Each of the systems consists of two pairs of coaxial coils connected in series and arranged in a closed

UDC: 621.317.772

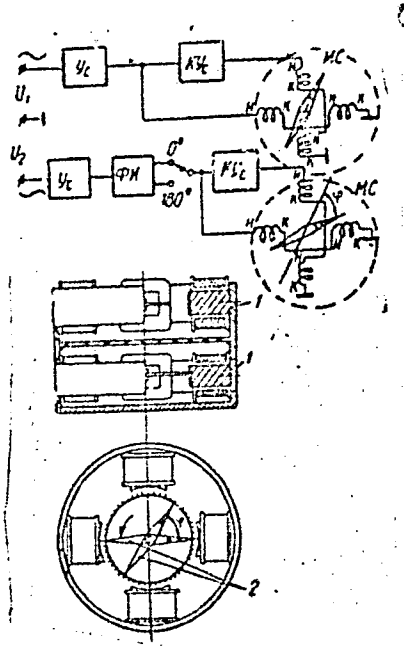
Card 1/3

magnetic yoke so that the axes of each pair are mutually perpendicular (see Fig. 1). A freely rotating magnetic needle is placed in the center of the system. The axis of the needle coincides with the axis of the magnetic system. One pair of coils is connected directly to the output of the preamplifier, and the other pair to the output of the preamplifier through the quadrature amplifier.

L 24541-66

ACC NR: AP6006330

Fig. 1. KY_c - quadrature amplifier;
MC - magnetic system;
φ - phase shift angle;
1 - magnetic yoke; 2 - magnetic needle.



Orig. art. has: 1 figure.

SUB CODE: 09/ SUBM DATE: 24Nov64

Card 3/3

L 10266-66 EWT(d)/EWT(1)
ACC NR: AP6000036 SOURCE CODE: UR/0115/65/000/010/0055/0056

AUTHOR: Kravchenko, S. A.

ORG: All-Union Scientific Research Institute of Metrology (VNIIM)

TITLE: Precision phasemeter for infralow frequency

SOURCE: Izmeritel'naya tekhnika, no. 10, 1965, 55-56

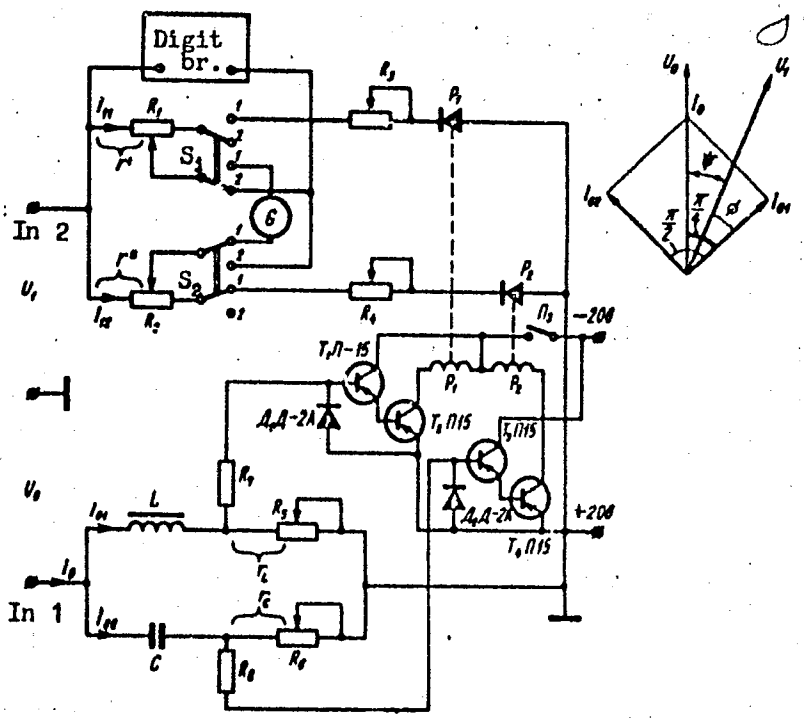
TOPIC TAGS: phase meter, infralow frequency

ABSTRACT: The accuracy (1.8°) of the existing 1--100-cps NF-3M phasemeter is considered inadequate. A new vibration-relay bridge-type phasemeter is suggested (see figure). A reference voltage U_0 periodically interrupts, by means of relay contacts P_1P_2, the bridge circuit R_1R_2 to which voltage U_1 is applied. The closing-opening times of the relay contacts are phase-shifted by 90° and 45° with respect to U_0. The phase-shift angle ψ between U_0 and U_1 is $\psi = 45° - \phi$, where ϕ is the angle between U_1 and I_{01}. Hence $\psi = 45° - \text{arctg}\frac{r'}{r''}$. Sensitive current amplifiers T_1T_2 and T_3T_4 eliminate the effect of the vibration relays on the phase-splitting circuit. The bridge-type measuring circuit includes two potentiometers R_1R_2, null detector G, and a digital bridge and two switches S_1S_2 for precise measuring of r'

Card 1/3 UDC: 621.317.373.029.4

L 10266-66
ACC NR: AP6000036

and r''. A laboratory model exhibited an error of 13--25 angular minutes; it is expected that a better relay may reduce the error to 10 min or lower. The new phasemeter is recommended for 1--400 cps, 1.5--15 v, 0--45° phase-angle measurements. Orig. art. has: 2 figures and 2 formulas. [03]



Card 2/3

L 10266-66
ACC NR: AP6000036

SUB CODE: 09/ SUBM DATE: none/ ORIG REF: 002/ ATD PRESS: 4164

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Card 3/3

L 62092-65 EED-2/EWA(h)/EWT(1) Pn-4/Peb

ACCESSION NR: AP5016737 UR/0286/65/000/010/0048/0049

AUTHORS: Koltik, Ye. D.; Kravchenko, S. A. 20 B

TITLE: Phase shifting device for very low frequencies. Class 21, No. 171046 21

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 10, 1965, 48-49

TOPIC TAGS: phase shifter, very low frequency

ABSTRACT: This Author Certificate presents a phase shifting device for very low frequencies. It contains a quartz oscillator, a high frequency square pulse shaper, a scaling circuit, an amplitude limiter, a circuit for measuring the phase shift increment, a phase shifter, and output amplifiers (see Fig. 1. on the Enclosure). To obtain a sinusoidal form of the output voltage curve, an analog calculating circuit is inserted to perform the function of a very low frequency filter. It consists of two integrators and a phase inverter with a feedback loop. Orig. art. has: 1 diagram.

ASSOCIATION: none

SUBMITTED: 14Feb64 ENCL: 01 SUB CODE: EC

NO REF SOV: 000 OTHER: 000

Card 1/2

L 62092-65

ACCESSION NR: AP5016737

ENCLOSURE: 01

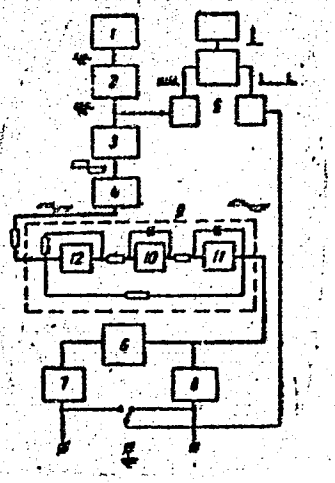

Fig. 1.

1- quartz oscillator; 2- high frequency square pulse shaper; 3- scaling circuit; 4- amplitude limiter; 5- circuit for measuring the phase shift increment; 6- phase shifter; 7 and 8- output amplifiers; 9- analog calculating circuit; 10 and 11- integrators; 12- phase inverter

Card 2/2

L 20935-66

ACC NR: AP6002526 (A) SOURCE CODE: UR/0286/65/000/023/0033/0033

AUTHORS: Kravchenko, S. A.; Drapkin, M. Ya.

42
B

ORG: none

TITLE: Infralow frequency voltage calibrator. Class 21, No. 176633 [announced by All-Union Scientific Research Institute of Mensuration im. D. I. Mendeleyev (Vsesoyuznyy nauchno-issledovatel'skiy institut metrologii)]

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 23, 1965, 33

TOPIC TAGS: measuring instrument, voltage stabilization, cathode ray tube

ABSTRACT: This Author Certificate presents an infralow frequency calibrator. The device includes a cathode ray tube, a variable voltage unit, a phase-splitting amplifier of the horizontal deflection, a vertical deflection amplifier, a linear integrator, a commutator, attenuators, key amplifiers, a differential amplifier, and a reference voltage source (see Fig. 1). The design provides an amplitude stabilized voltage in the frequency range 0.001--1000 cps inside the cathode ray tube. A four-electrode mask is placed around the screen of the cathode ray tube. A slit in the shape of a sinusoidal curve is located between the two vertical

2

Card 1/2 UDC: 621.317.789

L 20935-66

ACC NR: AP6002526

electrodes. Two electrodes, fixed at the ends of the slit, are used for changing the direction of motion of the beam along the slit.

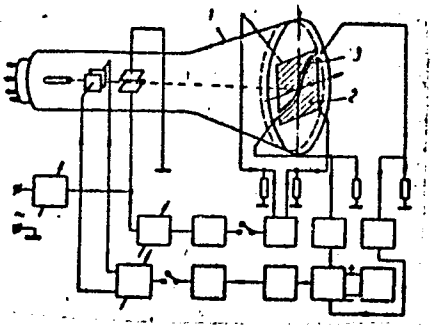

Fig. 1. 1 - cathode ray tube;
2 - four-electrode mask;
3 - slit in form of sinusoidal curve.

Orig. art. has: 1 figure.

SUB CODE: 09/ SUBM DATE: 19Jan65

Card 2/2

L [illegible]-67 EWT(d)/EWT(l)/EEC(k)/-2 IJP(c) 00
ACC NR: AP6039865 SOURCE CODE: UR/0413/66/000/020/0077/0077

INVENTOR: Gravin, O. N.; Kollik, Ye. D.; Kravchenko, G. A.

ORG: none

TITLE: Addition and subtraction phasemeter for infrared frequency. Class 21, No. 187148 [announced by the All-Union Scientific Research Institute of Metralogy im. D. I. Mendeleyev (Vsesoyusnyy nauchno-issledovatel'skiy institut metrologii)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 20, 1966, 77

TOPIC TAGS: phase measurement, electric test equipment

ABSTRACT: An Author Certificate has been issued for an addition and subtraction phasemeter for infrared frequency waves which input attenuators for both tested and

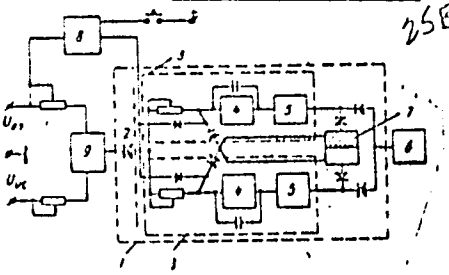

Fig. 1. Infrared phasemeter

1 - Measuring converter; 2 - rectifier diode; 3 - converter channels; 4 - current integrator; 5 - threshold elements; 6 - recording device; 7-bistable trigger; 8 - measurement time controller; 9 summator; U_{on} - reference voltage; V_{uc} - tested voltage

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reference voltage. The attenuators are connected at the summator input, and the summator output is coupled to a measuring converter which in turns is loaded by a recording unit. To increase accuracy and to reduce measurement time, the circuit shown in Fig. 1 is proposed. Orig. art. has: 1 figure.

SUB CODE: 14/ SUBM DATE: 27Aug65/ ATD PRESS: 5105

Card 2/2